

**AMENDMENTS TO THE CLAIMS**

This listing of the claims replaces all prior listings and versions:

**1 to 56.** (canceled).

**57.** (currently amended): A complex between ~~an~~ a non-naturally occurring exogenous molecule and a binding site in cellular chromatin within a cell, wherein the binding site comprises a target site and is in a region of cellular chromatin that is sensitive to a probe of chromatin structure.

**58-62.** (canceled)

**63.** (previously presented): The complex of claim 57, wherein the exogenous molecule is a transcription factor.

**64.** (previously presented): The complex of claim 63, wherein the transcription factor is a zinc finger protein (ZFP).

**65.** (canceled)

**66.** (previously presented): A cell comprising the complex of claim 57.

**67.** (canceled)

**68.** (previously presented): The cell of claim 66, wherein the exogenous molecule is a polypeptide encoded by a nucleic acid introduced into the cell.

**69.** (previously presented): The cell of claim 66, wherein the cell is a plant cell.

**70.** (previously presented): The cell of claim 66, wherein the cell is an animal cell.

**71.** (previously presented): The cell of claim 66, wherein the cell is a human cell.

**72-86.** (canceled)

**87.** (previously presented) The complex of claim 57, wherein the probe of chromatin structure is a chemical probe.

**88.** (previously presented) The complex of claim 57, wherein the probe of chromatin structure is an enzymatic probe.

**89.** (previously presented) The complex of claim 88, wherein the enzymatic probe is DNase I.

**90.** (previously presented) The complex of claim 88, wherein the enzymatic probe is a restriction endonuclease.

**91.** (withdrawn, currently amended) A method for forming a complex between ~~an~~ a non-naturally occurring exogenous molecule and a binding site in a first region of interest in cellular chromatin within a cell, wherein the binding site comprises a target site, wherein the method comprises:

(a) identifying a second region, within the region of interest, that is sensitive to a probe of chromatin structure;

(b) identifying a target site for the exogenous molecule within the second region; and

(c) introducing the exogenous molecule into the cell;  
whereby the exogenous molecule binds to the binding site.

**92.** (withdrawn) The method according to claim 91 wherein the cellular chromatin is in a chromosome.

**93.** (withdrawn) The method according to claim 91 wherein the probe of chromatin structure is a nuclease.

**94.** (withdrawn) The method according to claim 91, wherein the exogenous molecule is a transcription factor.

**95.** (withdrawn) The method according to claim 94 wherein the transcription factor is a zinc finger protein (ZFP).

**96.** (withdrawn) The method according to claim 91 wherein the exogenous molecule is a polypeptide encoded by an exogenous nucleic acid introduced into the cell.

**97.** (withdrawn) The method according to claim 91, wherein the cell is a eukaryotic cell.

**98.** (withdrawn) The method according to claim 97, wherein the cell is a plant cell.

**99.** (withdrawn) The method according to claim 97, wherein the cell is a mammalian cell.

**100.** (withdrawn) The method according to claim 99, wherein the cell is a human cell.

**101.** (withdrawn) The method according to claim 91, wherein the binding site is in a coding region.

**102.** (withdrawn) The method according to claim 91, wherein the binding site is in a non-coding region.